

PUBLIC NOTICE

File Number: NRS 15.063

Pursuant to Chapter 0400-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit and §401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

APPLICANT: Tracy Meggs. P.E., Civil Engineer

City of Cookeville 1115 East Spring Street Cookeville, TN 38501 (931) 520-5282

LOCATION: The project is the Bennett Road extension from the Minelick Creek Interchange on I-40 to SR-24/Highway 70N; Cookeville, Putnam County. Lat 36.160340; Long -85.564059

PROJECT DESCRIPTION: The proposed project will consist of the extension of Bennett Road from the Minelick Creek interchange on I-40 and continues 2.71 miles to SR24/Hwy 70N. The typical section consists of 2-12- ft lanes and 10-foot open shoulders with slopes of 4:1 with 3:1 slopes in environmentally sensitive areas. TDOT requires the City to purchase a 160-ft right-of-way for the future addition of 2 lanes. Buffalo Valley Road and SR 24/HWY 70N will be widened to 3-lane sections.

The proposed project will impact 1.60 acres of wetlands and 1024 linear feet of streams. There are 12 wetland areas within the project area. Three will be avoided, 7 partially filled and 2 completely filled. Several unnamed tributaries to Cane Creek and West Blackburn Fork have been have been identified in the proposed project area. Impacts vary from no impacts to encapsulation to relocation to encapsulation and relocation. Approximately 1376 linear feet will be relocated. A table is attached to this notice that details these impacts.

As compensatory mitigation for the impacts to streams the applicant proposes to purchase credits from the Tennessee Steam Mitigation Program. Wetland impacts will be compensated for in the Cane Creek watershed where the impacts are occurring. It shall consist of the enhancement of approximately 6.05 acres and the creation of 0.2 acres on Bob Gentry Road in Cookeville.

DEGRADATION: In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will result in degradation to water quality.

WATERSHED / WATERBODY DESCRIPTION: The proposed project lies within the Caney Fork Watershed (HUC 051330108) watershed and the Cordell Hull Lake-Cumberland River

(HUC05130106) watershed. More information can be found at http://www.state.tn.us/environment/caneyforkriverwatersheds/.shtml . The conveyance to be impacted has an average depth and width at just over one foot. The stream has no riparian area and it runs through an open field that is regularly mowed. Surrounding land use is residential and commercial.

Stream Name / ID #: Unnamed tributary to Cane Creek TN05130108045_0150

Ecoregion: Eastern Highland Rim 71g

Stream Dimension: n/a

Substrate: rock, gravel, silt

Fish and aquatic life not supporting physical substrate habitat alterations,

Recreation not supporting sedimentation/siltation

Irrigation fully supporting Livestock watering & wildlife fully supporting

PERMIT COORDINATOR: Mike Lee

FACTORS CONSIDERED: In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

COMMENTING: Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

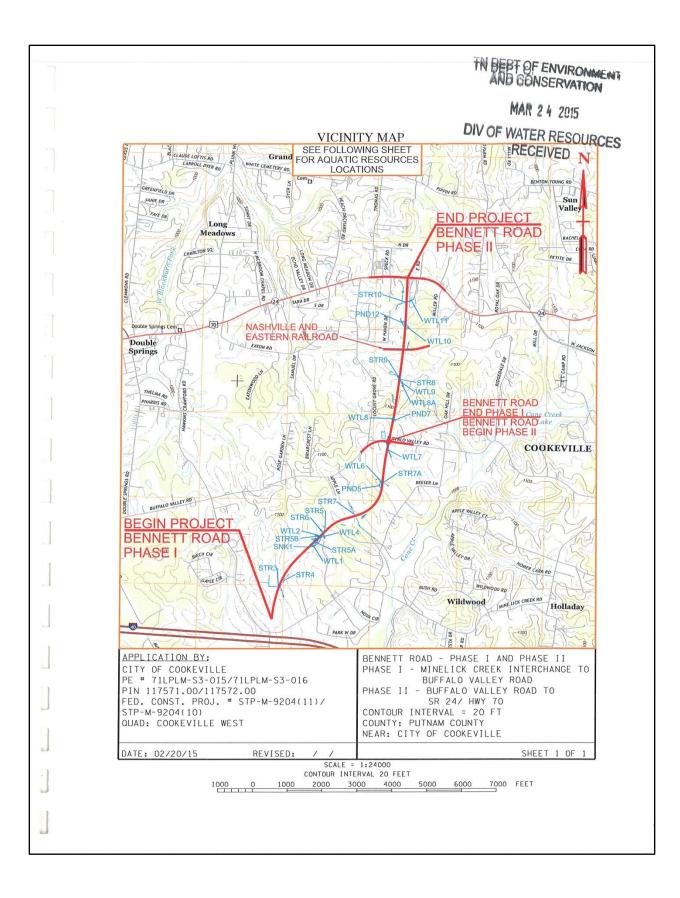
PUBLIC HEARING: Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

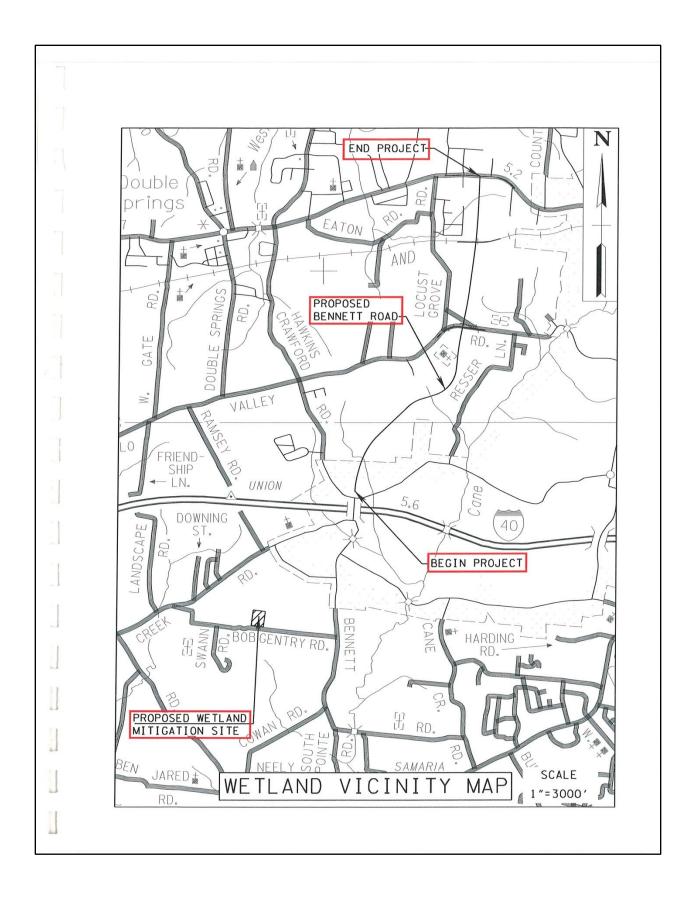
APPEAL: A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the

Tennessee Board of Water Quality, Oil and Gas at the following address: Tisha Calabrese Benton, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 11th floor, Nashville, TN 37243. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

FILE REVIEW: The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation Division of Water Resources, Natural Resources Unit William R. Snodgrass Tennessee Tower 312 Rosa L. Parks Avenue, 11th Floor Nashville, Tennessee 37243





Proposed Wetland Compensatory Mitigation for No Net Loss

Resource	Wetland Area (acre)	Status	Permanent Impact Area (acre)	Remaining (Acre)	Wetland Area / Percentage	Area of Mitigation (acres)	
WTL-1	1.193	To be Mitigated	0.450	0.743	62%	1.800	
WTL-2	0.133	To be Mitigated	0.133	0.000	0%	0.532	
WTL-3		Not to be Impacted		And the state of the last			
WTL-4	0.098	To be Mitigated	0.025	0.073	74%	0.100	
WTL-5	- 1000	Not to be Impacted					
WTL-6	0.107	To be Mitigated	0.107	0.000	0%	0.428	
WTL-7	0.248	To be Mitigated	0.140	0.108	44%	0,560	
WTL-8	0.076	To be Mitigated	0.076	0.000	0%	0.304	
WTL-8A		Not to be Impacted					
WTL-9	0.324	To be Mitigated	0.140	0.184	57%	0.560	
WTL-10	0.950	To be Mitigated	0.483	0.467	49%	1.932	
WTL-11	0.127	To be Mitigated	0.006	0.121	95%	0.024	
Total	Wetland Imp	act/Mitigation	1.600		T T	6,240	

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Proposed Stream Compensatory Mitigation for No Net Loss

				7				AD 500 5	
Resource	Status	Existing Stream	Str	eam Relocation (fee	et)	Proposed Total	Total Net	Mitigation Reg'd	
	Status	Length (feet)	Encapsulation	Open Channel	Riprap	Length (feet)	(Loss)/Gain	(feet)	
STR-3	Encapsulation	194	115	26	25	166	(28)	115	
STR-4	Encapsulation/Relocation	328	64	274	34	372	44	64	
STR	3 & STR -4 Totals **	522	179	300	59	538	(28)	179	

Stream 3 & Stream 4 have overlapping impacts.

Resource	Status	Existing Stream	Str	eam Relocation (fee	et)	Proposed Total	Total Net	Mitigation Reg'd
Resource	Status	Length (feet)	Encapsulation	Open Channel	Riprap	Length (feet)	(Loss)/Gain	(feet)
STR-5	Encapsulation/Relocation	361	96	306	12	414	53	96
STR-5A	Relocation	466	0	420	0	420	(46)	0
STR-5B	Relocation	216	0	273	0	273	57	0
STR-6	Relocation	118	0	0	0	0	(118)	0
STR -5, 5A, 5B & 6 Totals **		1161	96	999	12	1107	(164)	96

Stream 5, Stream 5A, Stream 5B & Stream 6 have overlapping impacts.

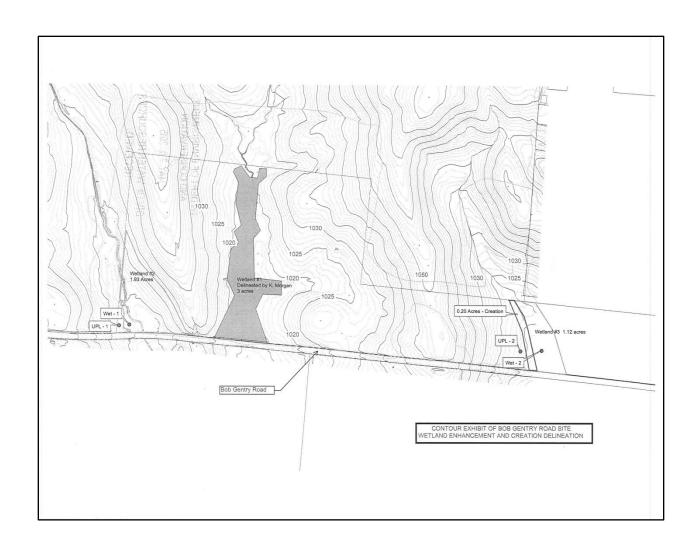
Resource	Status	Existing Stream Stream Relocation (feet) Length (feet) Encapsulation Open Channel Riprap Riprap 129 104 0 25 Capsulation Cap	Str	eam Relocation (fee	t)	Proposed Total	Total Net	Mitigation Regio
Nesource	Status		Riprap	Length (feet)	(Loss)/Gain	(feet)		
STR-7	Encapsulation		104	77	25 9	129	0 8	104
STR-7A	Encapsulation/Relocation	230	152			238		152
STR-8	Encapsulation	189	160	0	11	171	(18)	160
STR-8A	No proposed impacts				-100			
STR-9	Encapsulation	27	27	0	0	27	0	27
STR-10	Encapsulation	140	96	0	44	140	0	96
STR-10A	Bridge	-		-	-		0	0
STR-10B	No proposed impacts				-	-	The same of	
STR-11	No proposed impacts			- 000				
STR-11A	No proposed impacts				-			1000000000
Stream In	npact/Mitigation Totals **	715	539	77	89	705	(18)	539

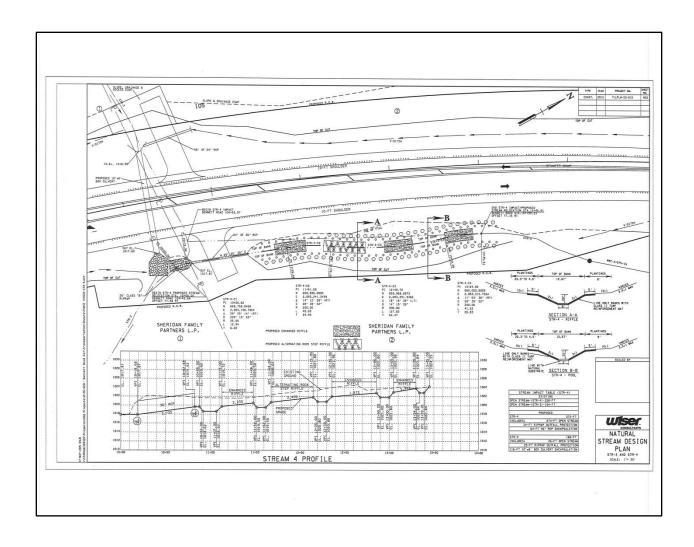
Proposed bridge will span 46 feet of the existing STR-10A and will not be impacted during construction

Feet
814
210
1024

^{**} In accordance with TDEC regulations an increase in linear footage in the relocation of one stream does not compensate for any linear footage loss of another.

					1.13		-			
					0		e 1		nett Road	
			_		-1		25 5	Proposed Str	eam Characteristics	
Site	Proposed Impact	Proposed Structure	Length (FT)	Depth _{so} (in)	Bottom Width (FT)	Side Slopes LT/RT	Average Slope	Side Slope/Channel Lining	Proposed Substrate - Match Existing in open channels and pools	Notes
STR-3	Encapsulation	10'x6" Conc. Box Culv.	115		1 50	pri-	0.846%	Class B Riprap	Gravel 60%; Silt 30%; Cobble 10%	Riprap at outfall is to be embedded & voids filled with natural substrate. No vegetation required
STR-4	Encapsulation/Relocation	36* Conc. Pipe	64/308	20-32	6.1.	2:1/2:1	2,494%	Class II TRM/Class B Riprap	Silt 70%; gravel 25%; cobble 5%	Riprap at outfall is to be embedded & voids filled with natural substrate. Vegetation required. See below
STR-S STR-SA	Encapsulation/Relocation Relocation	48" Conc. Pipe	96/318	19-30	6-8	6:1/4:1	2:590%	Class II TRM/Class B Riprap	Silt 100%	Riprap at outfall is to be embedded & voids filled with natural substrate. Vegetation required. See below
STR-SR	Relocation	N/A N/A	420 273	6-12 - 12-18	2.5-6	3.5:1/2:1 4:1/6:1	2.373%	Class II TRM Class II TRM	Silt 80%, gravel 20%	Vegetation required. See below
STR-6	Relocation	N/A				6 has the same	proposed cha	racteristics as STR-5	Silt 60%, gravel 40% Silt 100%	Vegetation required. See below Vegetation required. See below
STR-7	Encapsulation	10'x6' Conc. Box Culv.	103	(4)	11000	20%	0.942%	Class B Riprap	Silt 100%	Riprap at outfall is to be embedded & voids filled with natural substrate. No vegetation required
STR-7A	Encapsulation/Relocation	54° Conc. Pipe	152/86	25	0 6	8:1/4:1	0.610%	Class II ECB/Sod	Clay 60%, silt 40%	Vegetation required. See below
STR-8	Encapsulation	36* Conc. Pipe	160		.>	2,770	4.060%	Class B Riprap	Silt 70%, gravel 30%	Riprap at outfall is to be embedded & voids filled with natural substrate. No vegetation required
STR-8A	No proposed impacts				1000	75.00	- 450			
STR-9	Encapsulation	18" Conc. Pipe	27				0.926%	Class II ECB/Sod	Silt 60%, gravel 40%	No vegetation required
STR-10	Encapsulation	60° Conc. Pipe	96	-			1.325%	Class B Riprap	Gravel 70%, cobble 20%, silt 10%	Riprap at outfall is to be embedded & voids filled with natural substrate. No vegetation required
STR-10A	Bridge	3 -Span Bridge	Proposed 8	ridge Spans	the Nashville	Eastern Railroad	and STR-10A	No impacts are proposed to t	he existing stream.	
STR-108	No proposed impacts			100-2-5	100	200	10 No. 10	*Assessed to	Contract of the second	
STR-11	No proposed impacts			-	N		761			
STR-11A	No proposed impacts	STREET, SALES					-	International Control		
									ion - No more that 20% of any one specie	
									Cherries, Green Ashes, Black Willows, Tuli	
						Live St	takes: Black V	Willows, Silky Willows, Sandba	r Willows, Buttonbushes, Silky Dogwood o	or Elderberries
								Ben	nett Road	
								Proposed Wet	tland Characteristics	
	Secretary and a second a	Temporary Impact	Permanen	t Impact	Emergent	Volume of	Temporary	Volume of Permanent		
Site	Proposed Impact	Area (acre)	Area (Wetland	Impac		Impact (CY)	Plantings required	Notes
WTL-1	Partial Fill	0.170	0.45	50	N	27	15	726	Plantings required see note 8.	1. 12" of topsoil is to be removed from permanent and temporary impacted wetland areas and stockpiled.
WTL-2	Partial Fill	0.000	0.1	33	Y)	214	No planting in emergent Wetlands.	Wetland areas that are not to be disturbed are to be clearly marked with orange high visibility fencing (HVF).
WTL-3	No proposed impacts			LHEIS!	200		00.400=355			 When limits of the wetlands are located beyond the ROW, fencing is to be turned and placed along easement limits for 10
WTL-4	Partial Fill	0.007	0.00	25	Y	1	2	41	No planting in emergent Wetlands.	gradient of the wetland. 4. Wetland hydrology is to be maintained with an 18" high earth berm. Berms are to be lined with Class I ECB and install pric
WTL-5	No proposed impacts	STORY - SUMBLE	and the	Q.(Y5)74	1000	(VEDS) 5419		-0.520.0000	The second second second second second	to mainline excavations.
WTL-6	Completely Filled	0.000	0.10	07	N/A	()	173	No planting in emergent Wetlands.	5. HVF will be placed along top of berms when berms are constructed within the ROW.
WTL-7	Partial Fill	0.030	0.14		Y	4	9	226	No planting in emergent Wetlands.	6. Silt fence with wire backing will be placed no more than 3-ft from the HVF. Silt fence will be placed outside of the area no
WTL-8	Completely Filled	0.000	0.0	76	N/A)	123	No planting in emergent Wetlands.	be disturbed. 7. When passing through a wetland parallel to the ROW slit fence is to be placed on the ROW line or at the too of bank to
WTL-8A	No proposed impacts					Williams.		La Mark Links		which passing through a wetland parallel to the NOW six rence is to be placed on the NOW line or at the top or bank to minimize impacts to the wetland. HVF will be placed no more than 3-ft into the wetland beyond the six fence to delineate the
WTL-9	Partial Fill	0.011	0.1		Y	1		226	No planting in emergent Wetlands.	wetland area not to be disturbed.
WTL-10	Partial Fill	0.000	0.4		N)	780	No Planting Required.	B. Acceptable plantings are to be bare root seedlings and be selected from Red maples, American hombeams, Sycamores, Gr
WTL-11	Partial Fill	0.009	0.0	-	N	1		10	No Planting Required.	ashes or Box elders. Seedlings are to be selected such that no one species will comprise of more than 20% of the plantings
	Total	0.227	1.6	00		36	19	2519		
								Ben	nett Road	
							Prop	osed Characteristics	of other Environmental Feature	
Site	Proposed Impact	Impacted Area	Dec	th		Fill Required	Description			Proposed Remediation Notes
	,				- (CY)		, , , , , , , , , , , , , , , , , , ,	proti	· · · · · · · · · · · · · · · · · · ·
PND-4	No proposed impacts			PARTIES.	2002200	2000 A VISSO	200			Notes for Completely Filed Pond: 1. Completely drain pond through a sediment filter bag or other approved device. Excavation should be done in the dry.
PND-5	Completely Filled	0.240 ac	4-ft (ass	umed)	1	549		ond - General water quality is p fish, algae, or aquatic life obser	oor- cattle access and agriculture runoff,	Over excavate entire pand and line with Type III Geotextile fabric
PND-6	No proposed impacts			10-56-64	-		THO DESIGNOS, 1	ron, eight, or equality are obser	Yeu.	Backfill pond with at least 3-ft of Graded solid rock and wrap with Type III Geatextile fabric. Cap rock with at least 5" of topsoil and seed and mulch to stabilize site.
							Man-made or	ond - General water quality is f	air. No benthos, fish, algae, or aquatic life	Notes for Partially Filled Pond
PND-7	Completely Filled	0.161 ac	4-ft (ass	umed)	1	039	observed.			1. Completely drain pond through a sediment filter bag or other approved device. Excavation should be done in the dry.
PND-8	Partially Filled	0.155 ac	4-ft (ass	umed)	1	001		ond - General water quality is f	air. No benthos, fish, algae, or aquatic life	Over excavate pond to limits of toe of slope and line with Type III Gestextile fabric Backfill pond with at least 3-ft of Graded solid rock and wrap with Type III Gestextile fabric.
PND-9	No proposed impacts	277000010		Service Servic	-	STATE OF THE PARTY.	observed.			 Cap rock with at least 6" of topsoil to normal pool elevation of the remaining pond and seed and mulch to stabilize.
	No proposed impacts			A STATE OF			1000			Work will be preformed in the driest time of year as possible and as quickly as possible to minimize impacts to down gradient ponds or welfands.
	No proposed impacts No proposed impacts									Sepage Repair Notes:
PND-10			Committee.		and the same	100, 100	Man-made e	and . General water quality is 6	air. No benthos, fish, algae, or aquatic life	Excavate to rempove any unsuitable material as dierected by the geotechnical engineer.
PND-11	Partially Filled	0.053 ac	4-ft (ass	umed)		43	observed.	unu - General water quality is t	an. No ventrios, rish, argae, or aquatic life	Pface at least 3-ft of graded solid rock fill over the excavated area and line wrap with Type III Geotectile fabric.
	100000000000000000000000000000000000000		100000			56		nectoin for WTL-8 and PND-7		 Extend fill to the toe of slope to allow water to dischage through the embankment. Do not coverbackfill open graded rock.
PND-11	Filled	N/A	Unkn				Hydrogic connectoin for WTL-8 and PND-7			
PND-11 PND-12 SEP-1	Filled	50000	20000	200		20				Sink Hole Repair Notes:
PND-11 PND-12	1000010-1000	N/A N/A 2-ft Diameter	Unkn Unkn	own	-	56		nectoin for WTL-8 and PND-7		Sink Hole Repair Notes: 1. Sinkhole repair will be per TDOT standards - Sinkhole Treatment Option 2 or 2A. 2. Repairs are to be based on the recommendations of a qualified protechnical engineer or engineering geologist considering the





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Project Photos

Northern Connector Route from I-40 to US-70 (SR-24) Putnam County, Tennessee PIN 117571.00 and 117572.00 P.E. No. 71-LPLM-S3-015 and 71-LPLM-S3-016

July 29-31, 2013



Photograph No. 5

WTL-1 STA. 124+00±CL

Receiving Waters: Unnamed tributary to Cane Creek

View looking southeast.

Note: Photo depicts an interior view of WTL-1. Portions of WTL-1 are dominated by trees and other portions are dominated by emergent vegetation.



Photograph No. 6

WTL-1 STA. 125+50±R

Receiving Waters: Unnamed tributary to Cane Creek

View looking west.

Note: Photo depicts an overall view of the southwestern portion of WTL-1. The surrounding land use is dominated by active livestock pasture.

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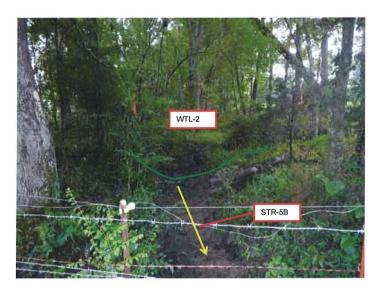
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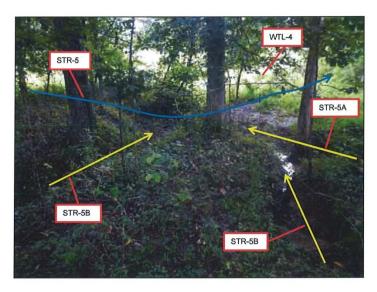
Photograph No. 9

STR-5B and WTL-2 STA. 129+50±R

Receiving Waters: Unnamed tributary to Cane Creek

View looking west.

Note: Photo depicts an up-gradient view of STR-5B, which carries drainage from WTL-2 to STR-5. The northeastern end of WTL-2 is depicted in the background of the photo.



Photograph No. 10

STR-5A, STR-5B, STR-5, and WTL-4 STA. 130+15±R

Receiving Waters: Unnamed tributary to Cane Creek

View looking southeast.

Note: Photo depicts the confluence of STR-5A, and STR-5B with STR-5. Evidence of impacts by cattle to the channel of STR-5 at this confluence was observed during the field study. WTL-4 directly abuts STR-5 in the far background of the photo (also see Photos 11 and 12).

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July 29-31, 2013



Photograph No. 13

STR-5 STA. 131+25±R

Receiving Waters: Unnamed tributary to Cane Creek

View looking south.

Note: Downstream view of STR-5. Cattle were observed in the forested area adjacent to the right descending bank of STR-5 at the time of the field study.



Photograph No. 14

STR-5 and STR-6 STA. 131+75±L

Receiving Waters: Unnamed tributary to Cane Creek

View looking southeast.

Note: Photo depicts a downstream view of STR-6 near its confluence with STR-5.

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July 29-31, 2013



Photograph No. 17

STR-7 STA. 145+25±CL

Receiving Waters: Unnamed tributary to Cane Creek

View looking north.

Note: Upstream view of STR-7 located within an active livestock pasture.



Photograph No. 18

STR-7 STA. 145+25±CL

Receiving Waters: Unnamed tributary to Cane Creek

View looking north.

Note: Close-up view of the channel of STR-7.

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Project Photos

Northern Connector Route from I-40 to US-70 (SR-24) Putnam County, Tennessee PIN 117571.00 and 117572.00 P.E. No. 71-LPLM-S3-015 and 71-LPLM-S3-016

July 29-31, 2013



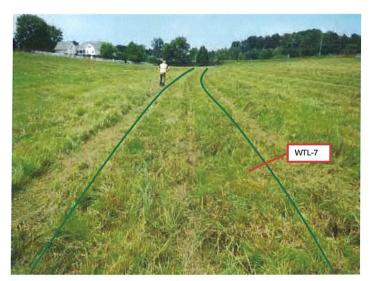
Photograph No. 23

WTL-7 STA. 174+00±R to 178+25±L

Receiving Waters: Unnamed tributary to Cane Creek.

View looking northwest.

Note: Photo depicts WTL-7, which begins at a RCP outlet (upper left) beneath Buffalo Valley Road (fill slope depicted in background).



Photograph No. 24

WTL-7 STA. 174+00±R to 178+25±L

Receiving Waters: Unnamed tributary to Cane Creek

View looking northwest.

Note: Photo depicts another view of WTL-7. WTL-7 is located within an active livestock pasture. WTL-7 is a linear slope wetland with an average width of approximately 10-12 feet. The vegetation had recently been bush-hog